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NOTICE OF ALLOWANCE AND FEE(S) DUE

27366

7590

03/11/2008

WESTMAN CHAMPLIN (MICROSOFT CORPORATION) SUITE 1400 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319

EXAMINER				
XU, KE	EVIN K			
ART UNIT PAPER NUMBER				
-				

2628

DATE MAILED: 03/11/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684.773	10/14/2003	Zicheng Liu	M61.12-0547	3356

TITLE OF INVENTION: GEOMETRY-DRIVEN FEATURE POINT-BASED IMAGE SYNTHESIS

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/11/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

indicated unless correct maintenance fee notifica		nerwise in Block 1, by (a				correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Feet	c) Transmittal This	certificate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, must
27366		/2008		Cert	ificate of Mailing or Trans	mission
SUITE 1400 900 SECOND A	VENUE SOUTH	ROSOFT CORPO	RATION) I he State addr trans	reby certify that this es Postal Service was essed to the Mail smitted to the USPT	s Fee(s) Transmittal is bein ith sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the c	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
MINNEAPOLIS	S, MN 55402-3319					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,773	10/14/2003		Zicheng Liu	-	M61.12-0547	3356
TITLE OF INVENTION	: GEOMETRY-DRIVE	N FEATURE POINT-BA	ASED IMAGE SYNTHES	IS		
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nonprovisional	NO NO	\$1440	\$300	\$0	\$1740	06/11/2008
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EXAM		ART UNIT	CLASS-SUBCLASS			
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CFR 1.363).		•	2. For printing on the p (1) the names of up to	3 registered patent		
Change of corresp Address form PTO/S	ondence address (or Cha B/122) attached.	nge of Correspondence	or agents OR, alternative (2) the name of a single	vely,		
	lication (or "Fee Address 22 or more recent) attach		registered attorney or a 2 registered patent attor listed, no name will be	igent) and the name rneys or agents. If n	s of up to	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)		
PLEASE NOTE: Un recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assignee pletion of this form is NO	data will appear on the pa T a substitute for filing an	atent. If an assigne assignment.	e is identified below, the d	ocument has been filed for
(A) NAME OF ASSI	•		(B) RESIDENCE: (CITY	· ·	OUNTRY)	
Please check the appropr	riate assignee category or	categories (will not be pr	cinted on the patent): \Box	Individual 🖵 Co	rporation or other private gr	oup entity 🚨 Government
4a. The following fee(s)	are submitted:	41	o. Payment of Fee(s): (Plea	se first reapply an	y previously paid issue fee	shown above)
Issue Fee	No small entity discount p	20. 18	A check is enclosed. Payment by credit car	1 E PEO 2020		
*	no small entity discount p				es the required fee(s), any de (enclose a	eficiency, or credit any
			overpayment, to Depo	sit Account Number	r (enclose a	n extra copy of this form).
5. Change in Entity Sta	i tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no long	ger claiming SMAL	L ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	d from anyone other than t			he assignee or other party in
interest as snown by the	records of the United Sta	tes Patent and Trademark	Conice.			
Authorized Signature				Date		
Typed or printed nam	ie			Registration No	0	
This collection of inform	nation is required by 37 C	FR 1.311. The information	on is required to obtain or r	etain a benefit by th	e public which is to file (an	d by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	/irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th ONOT SEND FEES OR	1.14. Inis collection is est of depending upon the indiv e Chief Information Office COMPLETED FORMS TO	imated to take 12 m idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	unutes to complete, including ments on the amount of the frademark Office, U.S. Dep. SEND TO: Commissioner	ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

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27366 75	90 03/11/2008		EXAM	INER
WESTMAN CHA	AMPLIN (MICROS	OFT CORPORATION)	XU, KE	VIN K
SUITE 1400	·	,	ART UNIT	PAPER NUMBER
900 SECOND AVI MINNEAPOLIS, N			2628 DATE MAILED: 03/11/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/684,773	LIU ET AL.
Notice of Allowability	Examiner	Art Unit
	KEVIN K. XU	2628
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to <u>10/31/07</u> .		
2. X The allowed claim(s) is/are <u>1,6,7,10,13-29,33-36,43,45-46</u>	<u>,48 and 49</u> .	
 Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	be been received. been received in Applicat	ion No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit to the submit the submit to the	IENT of this application. itted. Note the attached EX	(AMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	, , -	or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	-	ew (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		and the Office action of
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of	nformal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview	Summary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date s Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowance
	9. 🗌 Other	_

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Pighin ("Synthesizing Realistic Facial Expressions from Photographs") teaches a similar method for rendering a single frame of a synthesized image comprising generating a geometric component corresponding to a selected image for the frame based on identified feature points from a set of representative images (p. 2 Section 2, p. 3 Sections 2.1-2.2 Figs. 1-2, p. 5 Section 3.4). However no prior art references anticipate or suggest the limitations of "...wherein the composite of the set of representative images is based on the corresponding desired geometric component for each subregion, and the selected image includes a synthesized subregion for each subregion based on the composite by projecting the desired geometric component into the convex hull of the corresponding reference image geometric components to obtain a set of coefficients, where a coefficient is associated with a representative image, and wherein a texture of the subregion is based on combining the corresponding texture of the corresponding representative image as a function of each of the associated coefficients..." in combination with other claim limitations of claims 1, 25 and 35.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN K. XU whose telephone number is (571)272-7747. The examiner can normally be reached on 8:30AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman can be reached on 571-272-7653. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin K Xu/ Examiner, Art Unit 2628

/K. K. X./

2/27/08

/Mark K Zimmerman/ Supervisory Patent Examiner, Art Unit 2628